

Chapter 3 sec 2
Evaluating Algebraic Expressions

Rewrite two different ways to get the same product:

$$2 \cdot 5$$

$$3y$$

1) Replace the variable with the given value of the variable

2) Evaluate

Example 1: Page 179

Evaluate the expression: $x^2 - 2xy + y^2$ where $x = -3, y = 2$

Example 2: page 180

Evaluate: $(a-b)^2$ where $a = 3, b = -5$

Example 3:

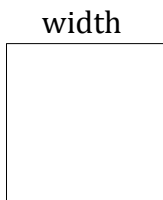
Evaluate the expression: $|a| - |b|$ where $a = 5, b = -7$

Example 5: page 181

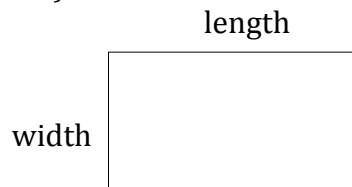
Evaluate the expression: $\frac{ad-bc}{a+b}$ where $a = 5, b = -3, c = 2, d = -4$

Identify the following figures:

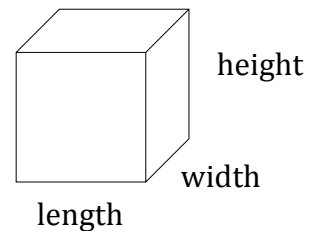
a)



b)



c)



How do you find the perimeter?

How do you find the area?

How do you find the surface area?

How do you find the volume?